

**VINAYAKA MISSION'S RESEARCH FOUNDATION  
(DEEMED TO BE UNIVERSITY), SALEM**

**M.PHARM. DEGREE EXAMINATION – JANUARY 2021  
Second Semester**

**BRANCH: PHARMACY PRACTICE**

**CLINICAL PHARMACOKINETICS AND THERAPEUTIC DRUG  
MONITORING**

Time : Three hours

Maximum: 75 marks

**(Draw neat labeled diagrams wherever necessary  
your answer should be specific to the questions asked)**

**SECTION –A**

I. Answer any **THREE** questions: **(3 x 15 = 45)**

1. Explain the indications and protocol for therapeutic drug monitoring. Add notes on TDM of drug used in cardiac and seizure disorders.
2. Discuss in detail the various pharmacokinetic drug interactions with suitable examples.
3. Write down the dosing of drugs in the elderly, paediatrics and obsess patients with examples.
4. Explain the dose adjustment in renal disease with respect to total body clearance and elimination rate constant.

**SECTION –B**

II. Answer any **THREE** questions: **(3 x 10 = 30)**

5. Write a note on pharmacometrics softwares.
6. Write a note on genetic polymorphism in drug metabolism.
7. Write a note on calculation of loading and maintenance doses.
8. Write a note extracorporeal removal of drugs.

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